

LOMBARDINI S.R.L.

EXECUTIVE ORDER U-R-027-0018 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)						
2003	3LBDL.916F69	0.611 and 0.916	Diesel	3000						
	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION							
	Indirect Diesel Inje	ection	Pump, Compressor, Generator and Industrial Equipment							

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER	EMISSION STANDARD				EXHAUST (g/kw-h	OPACITY (%)					
CLASS	CATEGORY		нс	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK	
KW<8	Tier 1	STD	N/A	N/A	10.5	8.0	1.0	20	15	50	
8 <u><</u> KW<19	Tier 1	STD	N/A	N/A	9.5	6.6	0.80	20	15	50	
		CERT			5.7	2.7	0.34	2	1	6	

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this ______ day of January 2003.

Allen Lyons, Chief

Mobile Source Operations Division

ATTACHMENT 1 OF 1

Engine Model Summary Form

Manufacturer: Lombardini SRL

EPA Engine Family: 3LBDL.916F69 Engine category: Nonroad CI

Mfr Family Name: LDW FOCS

Process Code: **New Submission**

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										A THE R. P. LEWIS CO., LANSING PROPERTY AND LANSING		LDW 602	LDW 602	LDW 602	LDW 602	LDW 602	LDW 602	LDW 903	LDW 903	LDW 903	LDW 903	LDW 903	LDW 903	2.Engine Model
The second of th							The second secon					14.02@3600	10.72@2400	7.37@1800	11.39@2600	12.86@3000	14.20@3600	21.44@3600	12.06@1800	16.75@2600	18.2@2800	19.7@3000	21.4@3600	3.BHP@RPM (SAE Gross)
THE CONTRACT OF THE CONTRACT O	and the second s				· · · · · · · · · · · · · · · · · · ·						:	18.8	19.0	18.0	19.0	19.0	18.8	19.0	18.0	18.5	18.5	18.7	19.7	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)
												7.50	5.05	3.59	5.47	6.33	7.50	11.38	5.38	8.00	5.48	9.33	11.8	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)
A CONTRACTOR OF THE PROPERTY O												Fixed Speed	Fixed Speed	Fixed Speed	24.34@2000	24.34@2000	24.34@2200	Fixed Speed	Fixed Speed	36.88@1800	36.88@1800	38.35@2000	39.83@2000	6.Torque @ RPM (SEA Gross)
												Fixed Speed	Fixed Speed	Fixed Speed	19.8	19.8	19.8	Fixed Speed	Fixed Speed	19.5	19.5	20.0	20.7	7.Fuel Rate: mm/stroke@peak torque
the state of the s			the state of the s					The second secon				Fixed Speed	Fixed Speed	Fixed Speed	4.39	4.39	4.83	Fixed Speed	Fixed Speed	5.84	5.84	6.66	6.88	8.Fuel Rate: (lbs/hr)@peak torque
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